PPC
A BELDEN BRAND

1K00X
Installation Manual

XPON ONT 1GE

1.1 Product Description

Thanks for choosing the 1LAN Home Gateway Unit. All PPC terminal devices are designed for fulfilling FTTH and triple play service demand of fixed network operators or cable operators. These boxes are based on the mature GPON and Gigabit EPON technology, which have high ratio of performance to price, they are highly reliable and easy to maintain, with guaranteed QoS for different service. And they are fully compliant with GPON and EPON technical regulations such as ITU-T G.984.x, IEEE802.3ah and technical requirement of EPON Equipment. Dual mode PPC ONT can detect and exchange PON mode automatically.
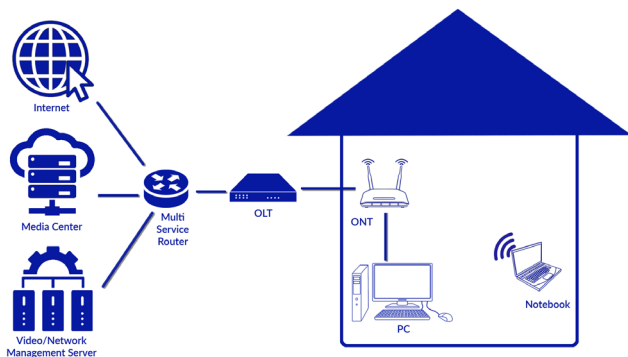
1.2 Application Chart

Fig 1 : **Network Architecture**

Fig 2 : **1K00X**

1.3 Technical Parameters

Technical items	1K00X(1GE PPC ONT)
PON interface	1 GPON/EPON interface, SC single-mode/single-fiber. GPON: uplink 1.25Gbps, downlink 2.5Gbps; EPON: symmetric 1.25Gbps.
Wavelength	Tx 1310nm, Rx 1490nm
Optical interface	SC/PC
LAN interface	1x 10/100/1000Mbps auto adaptive Ethernet interfaces.10/100M Full/Half, 1000M Full Duplex, RJ45 connector.
LED	4, For Status of POWER, LOS, PON, LAN
Operating condition	Temperature: -5°C~55°C Humidity: 10%~90% (non-condensing)
Storing condition	Temperature :-30°C~60°C Humidity :10%~90% (non-condensing)
Power supply	DC 12V/0.5A
Power consumption	≤6W
Dimension	110mm×70mm×30mm (L×W×H)
Net weight	0.13Kg

1.4 Package Contents

Contents	Quantity
PPC ONT	1 pcs
Power Adapter	1 pcs
User manual	1 pcs
Warranty Card	1 pcs
Cat 5E cable	1 pcs

2.1 Installation Requirements

Installation Environment Requirements

PPC ONT equipment must be installed in the interior, and to ensure the following conditions:
- Confirmation at the PPC ONT installation at sufficient space to facilitate cooling machine.
- PPC ONT suitable operating temperature of -5°C ~ 55°C,humidity10% to 90%.
- Device workplace should avoid radio transmitters,radar stations, and high-frequency interference from power equipment.

Equipment Installation

1. Installed on the desktop
   Place the machine on a clean bench, this installation is relatively simple, you can observe the following operation:
   - Ensure the smooth workbench.
   - Around the device enough space for heat dissipation.
2. Mounted on the wall
   - Observation PPC ONT equipment chassis two cruciform recess, in accordance with the position ofthe groove, installed two screws in the wall.
   - The original selected two mounting screws gently snap into recesses aligned.
   - Slowly let go,so that the device under the supportof the screw hanging on the wall.

2.2 LED Indications

LED	Panel Marking	Status	Description
Power	POWER	On	The device is powered up.
		Off	The device is powered down.
Optical signal loss	LOS	Blink	Device does not receive optical signals.
		Off	Device has received optical signal.
Registration	PON	On	The device is registered to PON system
		Off	Device is not registered to PON system
		Blink	Device registeration is incorrect
Interface	LAN	On	Port is connected properly (LINK).
		Off	Port connection exception or not connected.
		Blink	Port is sending or/and receiving data (ACT).

Fig 4 : **ONT Back Panel**

Name	Function
PON	Connect to OLT by SC type fiber connector, single mode optical fiber cable.
LAN	Connect PC or other devices with Ethernet port by Cat5 cable, RJ-45 connector.
RST	Press RST button over 10 seconds, ONU restores factory default and reboot.
POWER	Connect with power adapter. DC 12V, 0.5A.
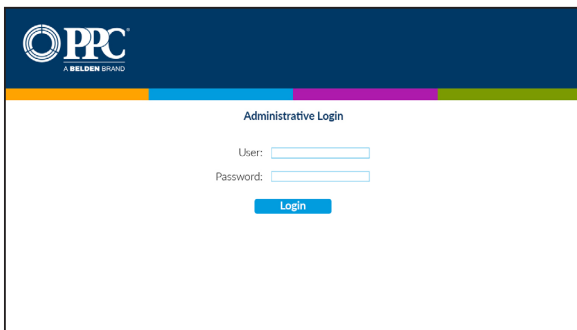
1LAN dual mode PPC ONT provides simple Web management function.

3.1 Default Configuration

The following is the default device configuration information.
- Local (LAN access) Username: admin , Password: PPC<last four digits of mac (in Caps)>
- LAN port management IP address: 192.168.1.1/24

3.2 Basic Configuration

Fig 5 : **Login Interface**

Web login default username: **admin** Password: **PPC<last Four Digits of MAC (Caps)>**
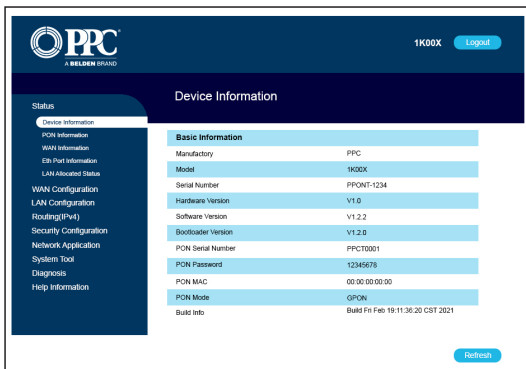
Fig 6 : **Status**
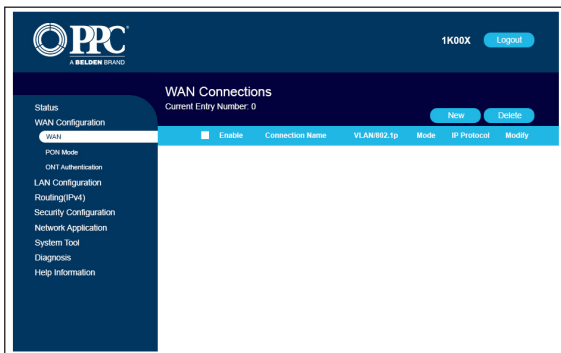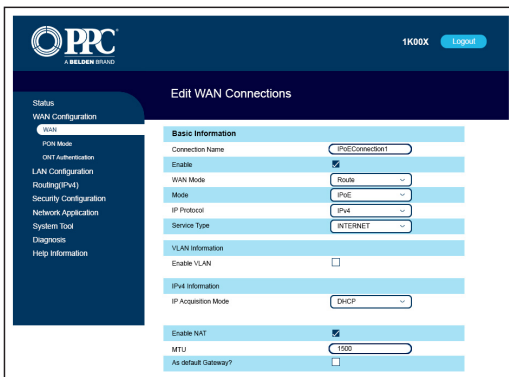
Fig 7 : **WAN Connections**
WAN connections will provide access to create/ delete/ modify the connections.
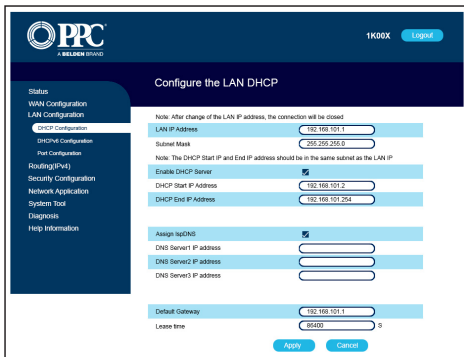
Fig 8 : **WAN Creation**

From WAN connection list we can create a new WAN connection as per the requirements of the customer. All the details required for creating wan connection will be provided on the above web interface

Fig 9 : **LAN setting**

IP Address and Subnet Mask: LAN port IP address and Mask.
DHCP option: Enable or disable DHCP server and configure IP address pool, DNS, etc.
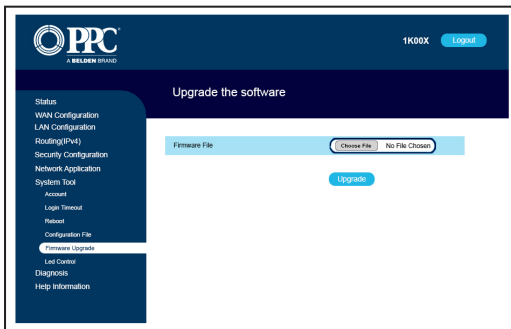**Note:** DHCP server changes take effect after the device is restarted.

Fig 10 : **Firmware Upgradation**

The above web page will helps us to do upgrade the software/firmware of ONT

Warranty will be covered only if the product cause any damage due to hardware or software at the time of manufacture

In any of the following cases, it will be charged for material fare and manual fee
•   Product is out of warranty.
•   The defects are caused by improper handling in transportation.
•   Remove and repair without authorization from company.
•   The warranty card is altered or illegible.
•   If warranty void ls label is peeled off.
•   Damage caused due to power surge.